**Amendments To The Claims:**

1-31 (Canceled).

32. (Currently Amended) A stent delivery catheter comprising:

an inner shaft, the inner shaft having a proximal portion and a distal portion and a center axis,

an inflatable medical balloon positioned about the distal portion of the inner shaft, the medical balloon having an expanded state, a contracted state, a proximal end and a distal end, wherein the medical balloon can be expanded from its contracted state to its expanded state, and

at least one mounting body secured to the inner shaft, inside the medical balloon and around the center axis, the mounting body having a length, a circumferential ~~outer~~ surface, wherein the circumferential surface is a surface of the mounting body that is outermost relative to the center axis and that faces radially away from the center axis and toward the medical balloon, and having at least one separation in the circumferential ~~outer~~ surface, wherein the at least one separation is exposed to a portion of the medical balloon which is located along a radial line which extends from the center axis and through the separation, the at least one separation being a circumferential separation, wherein the mounting body is formed of a material which resiliently deforms under radial pressure.

33. (Currently Amended) The stent delivery catheter of claim 32, wherein the mounting body has a plurality of separations, the plurality of separations being distinct from one another and being linearly aligned with one another relative to the center axis and the plurality of separations being exposed to the medical balloon.

34. (Previously Presented) The stent delivery catheter of claim 33, wherein the plurality of separations are substantially parallel and substantially circumferentially positioned around the mounting body.

35. (Previously Presented) The stent delivery catheter of claim 32, wherein the separation is substantially along the entire length of the mounting body.

36. (Withdrawn – Currently Amended) The stent delivery catheter of claim 32, wherein the separation is in the form of a spiral, the separate rings being linearly aligned with one another and non-overlapping relative to the center axis.

37. (Withdrawn) The stent delivery catheter of claim 36, wherein the separation is substantially along the entire length of the mounting body.

38. (Withdrawn) The stent delivery catheter of claim 32, wherein there are at least two mounting bodies axially spaced along the inner shaft.

39. (Previously Presented) The stent delivery catheter of 33, wherein the plurality of separations form a plurality of linearly positioned separate rings, the stent delivery catheter further comprising a wire extending through and attached to the linearly positioned separate rings.

40. (Currently Amended) The stent delivery catheter of claim 33, wherein the plurality of separations form a plurality of linearly positioned separate rings, the separate rings being linearly aligned with one another and non-overlapping relative to the center axis.

41. (Canceled)

42. (Previously Presented) The stent delivery catheter of claim 32, wherein the material is elastomeric.

43. (Previously Presented) The stent delivery catheter of claim 32, wherein the material comprises high density polyethylene.

44. (Previously Presented) The stent delivery catheter of claim 32, wherein the material comprises silicone.

45. (Previously Presented) The stent delivery catheter of claim 32, further comprising a stent crimped onto the medical balloon.

46. (Previously Presented) The stent delivery catheter of claim 45, wherein the stent has two opposite ends, the stent delivery catheter further including a pair of stops, each of which is respectively positioned at the opposite ends of the stent and carried by the inner shaft inside the inflatable means.

47. (Previously Presented) The stent delivery catheter of claim 45, further including marker bands positioned proximally and distally of the stent.

48. (Withdrawn) The stent delivery catheter of claim 45, further comprising a first sleeve at the distal end of the catheter having a first end gripped to the catheter and a second end overlying a first end portion of the stent, the sleeve releasing the stent upon expansion of the expandable inflation means.

49. (Withdrawn) The stent delivery catheter of claim 48, further comprising a second sleeve at the distal end of the catheter, having a first end gripped to the catheter and a second end overlying a second end portion of the stent, the sleeves releasing the stent upon expansion of the expandable inflation means.

50. (Previously Presented) The stent delivery catheter of claim 45, wherein the mounting body is substantially the same length as the stent.

51. (Previously Presented) The stent delivery catheter of claim 32, the mounting body having an outer diameter, wherein the outer diameter of the mounting body is substantially constant along its length.

52. (Previously Presented) The stent delivery catheter of claim 32, further comprising a tubular medical device, the tubular medical device being about the medical balloon and at least a portion of the mounting body and having an expanded state and a contracted state.